

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 11-Oct-2023 Revision Number 1

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product Code(s) VHG-SISO70TOL30-100-100

Product Name Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

Form Not applicable

Unique Formula Identifier (UFI) 5A1S-X0M9-100X-61N3

Pure substance/mixture Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use Laboratory use

Uses advised against No information available

1.3. Details of the supplier of the safety data sheet

#### Supplier

LGC Limited Queens Road Teddington Middlesex TW11 0LY UNITED KINGDOM :+44 (0) 20 8943 7000 Fax :+44 (0) 20 8943 2767 eMail : gb@lgcstandards.com

Web: www.lgcstandards.com

For further information, please contact

E-mail address sds-request@lgcgroup.com

### 1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident

Spill, Leak, Fire Exposure, or Accident

Call CHEMTREC:

USA & Canada 1-800-424-9300 Rest of the world +1 703-741-5970

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Emergency Telephone - §4	5 - (EC)1272/2008	
Europe	112	
Austria	No information available	
Bulgaria		
Croatia		
Cyprus		
Czech Republic		
Denmark		
France		
Hungary		
Ireland		
Italy		
Lithuania		
Luxembourg		
Netherlands		
Norway		
Portugal		
Romania		
Slovakia		
Slovenia		
Spain		
Sweden		
Switzerland		

# **SECTION 2: Hazards identification**

# **2.1. Classification of the substance or mixture** Classification according to

Regulation (EC) No. 1272/2008 [CLP]

1. togatation (20) 110: 12/2/2000 [02.]	
Aspiration hazard	Category 1 - (H304)
Skin corrosion/irritation	Category 2 - (H315)
Reproductive toxicity	Category 2 - (H361)
Specific target organ toxicity — single exposure	Category 3 - (H336)
Category 3 Narcotic effects	
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)
Flammable liquids	Category 2 - (H225)

## 2.2. Label elements

Contains isooctane, Toluene

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#### Signal word Danger

#### **Hazard statements**

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H410 - Very toxic to aquatic life with long lasting effects

H225 - Highly flammable liquid and vapour

#### Precautionary Statements - EU (§28, 1272/2008)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P260 - Do not breathe dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P331 - Do NOT induce vomiting

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish

P391 - Collect spillage

P403 + P235 - Store in a well-ventilated place. Keep cool

#### 2.3. Other hazards

No information available.

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

This product does not contain any known or suspected endocrine disruptors.

Chemical name	EU - REACH (1907/2006) - Article 59(1)	
	- Candidate List of Substances of Very	Disruptor Assessment List of
	High Concern (SVHC) for Authorisation	Substances
isooctane	-	-
Toluene	-	-
Butyl sulfide	-	-

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# **SECTION 3: Composition/information on ingredients**

3.1 Substances

Not applicable

3.2 Mixtures

**Chemical nature** 

Mixture of organic compounds.

Chemical name	Weight-%	REACH registration number	,	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
isooctane 26635-64-3	60 - 80	-	247-861-0	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
Toluene 108-88-3	20 - 40	-	203-625-9	Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Flam. Liq. 2 (H225)			
Butyl sulfide 544-40-1	<0.1	-	208-870-5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)			

# Full text of H- and EUH-phrases: see section 16

## **Acute Toxicity Estimate**

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATEmix) for classifying a mixture based on its components

Chemical name	Oral LD50 mg/kg	Dermal LD50	Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
isooctane	16.8	No data available	No data available	No data available	No data available

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Chemical name	Oral LD50 mg/kg		Inhalation LC50 - 4	Inhalation LC50 - 4	Inhalation LC50 - 4
		mg/kg	hour - dust/mist - mg/L	hour - vapour - mg/L	hour - gas - ppm
26635-64-3					
Toluene	2600	12000	12.5	No data available	No data available
108-88-3					
Butyl sulfide	2220	No data available	No data available	No data available	No data available
544-40-1					

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **SECTION 4: First aid measures**

## 4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

**Inhalation** Remove to fresh air. Aspiration into lungs can produce severe lung damage. If breathing

has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, (trained personnel should) give oxygen. Get immediate medical attention. Delayed

pulmonary edema may occur.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes

and shoes. Get medical attention if irritation develops and persists.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

Get immediate medical attention.

Self-protection of the first aider Remove all sources of ignition. Ensure that medical personnel are aware of the material(s)

involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin,

eyes or clothing.

### 4.2. Most important symptoms and effects, both acute and delayed

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**Symptoms** Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Inhalation of high vapour

concentrations may cause symptoms like headache, dizziness, tiredness, nausea and

vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

**Note to doctors**Because of the danger of aspiration, emesis or gastric lavage should not be used unless the

risk is justified by the presence of additional toxic substances.

## **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Suitable Extinguishing Media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media**Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the

chemical

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire

extinguishing water must be disposed of in accordance with local regulations.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

#### SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Use personal protective equipment as required. See

section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the

product must be grounded. Do not touch or walk through spilled material.

Other information Ventilate the area. Refer to protective measures listed in Sections 7 and 8.

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6.2. Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if

safe to do so. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Methods for containment Stop leak if you can do it without risk. Do not touch or walk through spilled material. A

vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand

or other non-combustible material and transfer to containers for later disposal.

Methods for cleaning up Take precautionary measures against static discharges. Dam up. Soak up with inert

absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Advice on safe handling Use personal protection equipment. Avoid breathing vapours or mists. Keep away from

heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of

equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear

suitable gloves and eye/face protection.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat,

sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static

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electricity). Keep in properly labelled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials. Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA.

#### 7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
isooctane	-	TWA: 300 ppm	-	-	-
26635-64-3		TWA: 1400 mg/m <sup>3</sup>			
		STEL 1200 ppm			
		STEL 5600 mg/m <sup>3</sup>			
Toluene	TWA: 50 ppm	TWA: 50 ppm	TWA: 20 ppm	STEL: 100 ppm	TWA: 50 ppm
108-88-3	TWA: 192 mg/m <sup>3</sup>	TWA: 190 mg/m <sup>3</sup>	TWA: 77 mg/m <sup>3</sup>	STEL: 384.0 mg/m <sup>3</sup>	TWA: 192 mg/m <sup>3</sup>
	*	STEL 100 ppm	STEL: 100 ppm	TWA: 50 ppm	STEL: 100 ppm
		STEL 380 mg/m <sup>3</sup>	STEL: 384 mg/m <sup>3</sup>	TWA: 192.0 mg/m <sup>3</sup>	STEL: 384 mg/m <sup>3</sup>
		H*	*	K*	*
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
isooctane	-	-	-	TWA: 200 ppm	TWA: 300 ppm
26635-64-3				TWA: 900 mg/m <sup>3</sup>	TWA: 1400 mg/m <sup>3</sup>
				STEL: 300 ppm	STEL: 380 ppm
				STEL: 1400 mg/m <sup>3</sup>	STEL: 1800 mg/m <sup>3</sup>
Toluene	*	TWA: 200 mg/m <sup>3</sup>	TWA: 25 ppm	TWA: 50 ppm	TWA: 25 ppm
108-88-3	STEL: 100 ppm	Ceiling: 500 mg/m <sup>3</sup>	TWA: 94 mg/m <sup>3</sup>	TWA: 192 mg/m <sup>3</sup>	TWA: 81 mg/m <sup>3</sup>
	STEL: 384 mg/m <sup>3</sup>	*	H*	STEL: 100 ppm	STEL: 100 ppm
	TWA: 50 ppm		STEL: 384 mg/m <sup>3</sup>	STEL: 384 mg/m <sup>3</sup>	STEL: 380 mg/m <sup>3</sup>
	TWA: 192 mg/m <sup>3</sup>		STEL: 100 ppm	A*	iho*
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
isooctane	TWA: 1000 mg/m <sup>3</sup>	-	-	-	TWA: 2350 mg/m <sup>3</sup>
26635-64-3	STEL: 1500 mg/m <sup>3</sup>				
Toluene	TWA: 20 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA: 50 ppm	TWA: 190 mg/m <sup>3</sup>
108-88-3	TWA: 76.8 mg/m <sup>3</sup>	TWA: 190 mg/m <sup>3</sup>	TWA: 190 mg/m <sup>3</sup>	TWA: 192 mg/m <sup>3</sup>	TWA: 50 ppm

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	STEL: 100 ppm STEL: 384 mg/m <sup>3</sup> *	H*	Peak: 100 ppm Peak: 380 mg/m <sup>3</sup>	STEL: 3 skin - po cuta	100 ppm 384 mg/m <sup>3</sup> otential for aneous orption	STEL: 384 mg/m³ STEL: 100 ppm *
Chemical name	Ireland	Italy MDLPS	Italy AIDII		atvia	Lithuania
isooctane 26635-64-3	-	-	TWA: 300 ppm TWA: 1401 mg/m <sup>3</sup>	TWA: 1	00 mg/m <sup>3</sup> 300 mg/m <sup>3</sup>	TWA: 200 ppm TWA: 900 mg/m <sup>3</sup> STEL: 300 ppm STEL: 1400 mg/m <sup>3</sup>
Toluene 108-88-3	TWA: 192 mg/m³ TWA: 50 ppm STEL: 384 mg/m³ STEL: 100 ppm Sk*	TWA: 50 ppm TWA: 192 mg/m³ pelle*	TWA: 20 ppm TWA: 75.4 mg/m <sup>3</sup>	TWA:	14 ppm 50 mg/m <sup>3</sup> : 40 ppm 150 mg/m <sup>3</sup> *	* TWA: 50 ppm TWA: 192 mg/m³ STEL: 100 ppm STEL: 384 mg/m³
Butyl sulfide 544-40-1	•	-	-		-	TWA: 1 ppm
Chemical name	Luxembourg	Malta	Netherlands		rway	Poland
isooctane 26635-64-3	-	-	-	TWA: 2 STEL	40 ppm 275 mg/m <sup>3</sup> : 60 ppm 3.75 mg/m <sup>3</sup>	-
Toluene	*	*	TWA: 39 ppm		25 ppm	STEL: 200 mg/m <sup>3</sup>
108-88-3	STEL: 100 ppm STEL: 384 mg/m <sup>3</sup> TWA: 50 ppm TWA: 192 mg/m <sup>3</sup>	STEL: 100 ppm STEL: 384 mg/m <sup>3</sup> TWA: 50 ppm TWA: 192 mg/m <sup>3</sup>	TWA: 150 mg/m <sup>3</sup> STEL: 100 ppm STEL: 384 mg/m <sup>3</sup>	STEL:	94 mg/m <sup>3</sup> 37.5 ppm 141 mg/m <sup>3</sup> H*	TWA: 100 mg/m <sup>3</sup> *
Chemical name	Portugal	Romania	Slovakia	Slo	venia	Spain
isooctane 26635-64-3	TWA: 300 ppm	TWA: 700 mg/m <sup>3</sup> STEL: 1000 mg/m <sup>3</sup>	-	TWA: 2	500 ppm 400 mg/m³ STEL ppm TEL mg/m³	TWA: 300 ppm TWA: 1420 mg/m <sup>3</sup>
Toluene 108-88-3	TWA: 50 ppm TWA: 192 mg/m³ STEL: 100 ppm STEL: 384 mg/m³ P*	TWA: 50 ppm TWA: 192 mg/m³ STEL: 100 ppm STEL: 384 mg/m³ *	TWA: 50 ppm TWA: 192 mg/m³ * Ceiling: 384 mg/m³	TWA: 1 STEL:	50 ppm 92 mg/m <sup>3</sup> 100 ppm 384 mg/m <sup>3</sup>	TWA: 50 ppm TWA: 192 mg/m³ STEL: 100 ppm STEL: 384 mg/m³ vía dérmica*
Chemical name	S	weden	Switzerland		Uni	ted Kingdom
isooctane 26635-64-3	NGV:	: 200 ppm 900 mg/m³ 350 mg/m³	TWA: 300 ppm TWA: 1400 mg/i STEL: 600 ppn STEL: 2800 mg/	m³ n		-
Toluene 108-88-3	NGV:	': 50 ppm 192 mg/m³ KGV: 100 ppm	TWA: 50 ppm T' TWA: 190 mg/m <sup>3</sup> TW		TW	VA: 50 ppm A: 191 mg/m³ EL: 100 ppm

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	Bindande KGV: 384 mg/m³ *	STEL: 760 mg/m³ H*	STEL: 384 mg/m³ Sk*
Butyl sulfide 544-40-1	NGV: 1 ppm	-	-

# **Biological occupational exposure limits**

Chemical name	European Union	Austria	Bulgaria	Croatia	Czech Republic
Toluene	=	10 g/dL Hemoglobin	1.6 mmol/mmol	1.0 mg/L - blood	1.6 µmol/mmol
108-88-3		(blood - by the first	Creatinine - urine	(Toluene) - at the	Creatinine (urine -
		screening and once	(Hippuric acid) - at	end of the work shift	o-Cresol end of shift)
		yearly)	the end of exposure	20 ppm - final	1000 µmol/mmol
		12 g/dL Hemoglobin	or end of work shift	exhaled air	Creatinine (urine -
		(blood - by the first		(Toluene) - during	Hippuric acid end of
		screening and once		exposure	shift)
		yearly)		2.50 g/g Creatinine -	
		3.2 million/µL			(urine - o-Cresol end
		Erythrocytes (blood -		- at the end of the	of shift)
		by the first screening		work shift	1600 mg/g
		and once yearly)		1.0 mg/g Creatinine -	
		3.8 million/µL			Hippuric acid end of
		Erythrocytes (blood -		the end of the work	shift)
		by the first screening		shift	
		and once yearly)			
		4000 Leukocytes/µL			
		(blood - by the first			
		screening and once			
		yearly)			
		13000			
		Leukocytes/µL			
		(blood - by the first			
		screening and once			
		yearly)			
		130000			
		Thrombocytes/µL			
		(blood - by the first			
		screening and once			
		yearly)			
		150000			
		Thrombocytes/µL			
		(blood - by the first			
		screening and once			
		yearly)			
		0.8 mg/L (urine -			

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	T			1			
	1 -	-Cresol after end of					
		vork day, at the end					
		of the shift)					
Chemical name	Denmark	of the shift) Finland	Eron	200	Germany DF		Germany TRGS
Toluene		500 nmol/L (blood -	Frar 1 mg/L -		600 µg/L (wh		600 µg/L (whole
108-88-3	-	Toluene in the	blood (To		blood - Tolue		blood - Toluene
100-00-3		morning after a	end of	,	immediately a	-	immediately after
		working day)	2500 mg/g	-		1101	exposure)
		working day)	- urine (F		75 μg/L (urin	e -	75 μg/L (urine -
			acid) - en				Toluene end of shift)
			,		1.5 mg/L (urir	, ,	1.5 mg/L (urine -
					o-Cresol (aft		o-Cresol (after
					hydrolysis) f	or	hydrolysis) for
					long-term		long-term
					exposures: at		exposures: at the
							end of the shift after
					several shift		several shifts)
					1.5 mg/L (urin		1.5 mg/L (urine -
					o-Cresol (aft		o-Cresol (after
					hydrolysis) en	a or	hydrolysis) end of
					shift) 600 µg/L - B/	<sub>^</sub> -	shift)
					(immediately a		
					exposure) blo		
					75 μg/L - BAT		
					of exposure or		
					of shift) urin		
					1.5 mg/L - BAT		
					long-term	`	
					exposures: at	the	
					end of the shift		
					several shifts) ı		
					1.5 mg/L - BAT		
					of exposure or		
Ob	I I and the second	la-la-		14 = 1.	of shift) urin	e	It-b. AIDII
Chemical name	Hungary	Ireland		Italy	/ MDLPS	0.0	Italy AIDII
Toluene 108-88-3	1 mg/g Creatinine (uri o-Cresol end of shif	,			-		mg/g Creatinine - ne (o-Cresol (with
100-00-3	1 µmol/mmol Creatin	<i>'</i>					olysis)) - end of shift
	(urine - o-Cresol end		,				0.03 mg/L - urine
	shift)	Toluene end					luene) - end of shift
	0	0.3 mg/g Creati	, ,				.02 mg/L - blood
		- o-Cresol end					luene) - prior to last
			′			٠,	hift of workweek
Chemical name	Latvia	Luxembo	ourg	R	omania		Slovakia

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Toluene	1.6 g/g Croatining uring	Ι	2 g/L uring (Hippuria	600 ug/l (blood Tolueno
108-88-3	1.6 g/g Creatinine - urine (Hippuric acid) - end of	_	2 g/L - urine (Hippuric acid) - end of shift	600 µg/L (blood - Toluene end of exposure or work
100 00 0	shift		3 mg/L - urine (o-Cresol) -	shift)
	0.05 mg/L - blood		end of shift	1.5 mg/L (urine - o-Cresol
	(Toluene) - end of shift			after all work shifts)
	( 1 1 1 1 )			1.5 mg/L (urine - o-Cresol
				end of exposure or work
				shift)
				1600 mg/g creatinine ( -
				Hippuric acid end of
				exposure or work shift)
Chemical name	Slovenia	Spain	Switzerland	United Kingdom
Toluene		0.6 mg/L (urine - o-Cresol	. • `	-
108-88-3	(Toluene) - immediately	end of shift)	Toluene end of shift)	
	after exposure	0.05 mg/L (blood -	6.48 µmol/L (whole blood	
	1.5 mg/L - urine (o-Cresol		,	
	(after hydrolysis)) - at the	of workweek)	2 g/g creatinine (urine -	
	end of the work shift; for	0.08 mg/L (urine -	Hippuric acid end of shift,	
	long-term exposure: at the end of the work shift after	Toluene end of shift)	and after several shifts (for long-term exposures))	
			1, ,,	
	at the end of the work			
	shift		(for long-term exposures))	
			0.5 mg/L (urine - o-Cresol	
			end of shift, and after	
			several shifts (for	
			long-term exposures))	
			1	
	1			
			0.5 mg/L (urine - o-Cresol end of shift, and after several shifts (for	I

Derived No Effect Level (DNEL) Predicted No Effect Concentration No information available. (PNEC)

No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection Tight sealing safety goggles. Avoid contact with eyes. Wear safety glasses with side shields

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### VHG-SISO70TOL30-100-100 - Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

(or goggles).

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374. Wear protective Viton™ gloves. Wear suitable

gloves. Impervious gloves.

Skin and body protection Long sleeved clothing. Chemical resistant apron. Antistatic boots. Wear suitable protective

clothing.

exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of

equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear

None known

suitable gloves and eye/face protection.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

# **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Physical state
Appearance
Colour
Colour
Codour
Codourless
Odour

Odour threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point / freezing pointNo data availableNone knownInitial boiling point and boiling range> 35 °CNone knownFlammabilityNo data availableNone knownFlammability Limit in AirNone known

**Upper flammability or explosive** No da

opper nammabii

No data available

Lower flammability or explosive No data available

limits

Flash point< 23 °C</th>None knownAutoignition temperatureNo data availableNone knownDecomposition temperatureNone known

pH No data available

pH (as aqueous solution) No data available No information available

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### VHG-SISO70TOL30-100-100 - Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

Kinematic viscosityNo data availableNone knownDynamic viscosityNo data availableNone knownWater solubilityNo data availableNone known

Solubility(ies) Immiscible, (Water)

Partition coefficientNo data availableNone knownVapour pressureNo data availableNone knownRelative densityNo data availableNone known

Bulk density
No data available
No data available

Relative vapour density

No data available

None known

Particle characteristics

Particle Size No information available Particle Size Distribution No information available

#### 9.2. Other information

9.2.1. Information with regards to physical hazard classes Not applicable

9.2.2. Other safety characteristics No information available

# **SECTION 10: Stability and reactivity**

10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge Yes.

10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

10.4. Conditions to avoid

**Conditions to avoid** Heat, flames and sparks.

10.5. Incompatible materials

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## VHG-SISO70TOL30-100-100 - Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

Hazardous decomposition products None known based on information supplied.

# SECTION 11: Toxicological information

## 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

## Information on likely routes of exposure

#### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available. Aspiration into lungs can

produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract. May cause drowsiness or dizziness.

**Eye contact** Specific test data for the substance or mixture is not available. May cause irritation.

**Skin contact** Repeated exposure may cause skin dryness or cracking. Specific test data for the

substance or mixture is not available. Causes skin irritation. (based on components).

**Ingestion** Specific test data for the substance or mixture is not available. Potential for aspiration if

swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. Ingestion may cause

gastrointestinal irritation, nausea, vomiting and diarrhoea.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Difficulty in breathing. Coughing and/ or wheezing. Dizziness. Redness. May cause redness

and tearing of the eyes. Inhalation of high vapour concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

## Numerical measures of toxicity

#### **Acute toxicity**

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Toluene	= 2600 mg/kg (Rat)	= 12000 mg/kg (Rabbit)	= 12.5 mg/L (Rat)4 h

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## VHG-SISO70TOL30-100-100 - Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

	Butyl sulfide	= 2220 mg/kg (Rat)	> 5000 mg/kg ( Rabbit )	
- 1				

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitisation** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available

for ingredients. Suspected of damaging fertility or the unborn child.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Toluene	Repr. 2

**STOT - single exposure** May cause drowsiness or dizziness.

**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard** May be fatal if swallowed and enters airways.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

11.2.2. Other information

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## VHG-SISO70TOL30-100-100 - Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

Other adverse effects No information available.

# **SECTION 12: Ecological information**

12.1. Toxicity

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

**Unknown aquatic toxicity**Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
isooctane	-	-	-	EC50: =0.02856mg/L
				(48h, Daphnia magna)
Toluene	EC50: =12.5mg/L (72h,	LC50: 15.22 - 19.05mg/L	-	EC50: 5.46 - 9.83mg/L
	Pseudokirchneriella	(96h, Pimephales		(48h, Daphnia magna)
	subcapitata)	promelas)		EC50: =11.5mg/L (48h,
	EC50: >433mg/L (96h,	LC50: =12.6mg/L (96h,		Daphnia magna)
	Pseudokirchneriella	Pimephales promelas)		
	subcapitata)	LC50: 5.89 - 7.81mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: 14.1 - 17.16mg/L		
		(96h, Oncorhynchus		
		mykiss)		
		LC50: =5.8mg/L (96h,		
		Oncorhynchus mykiss)		
		LC50: 11.0 - 15.0mg/L		
		(96h, Lepomis		
		macrochirus)		
		LC50: =54mg/L (96h,		
		Oryzias latipes)		
		LC50: =28.2mg/L (96h,		
		Poecilia reticulata)		
		LC50: 50.87 - 70.34mg/L		
		(96h, Poecilia reticulata)		
Butyl sulfide	-	LC50: = 3.58 mg/L (96h,	-	-
_		Pimephales promelas)		

## 12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

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## VHG-SISO70TOL30-100-100 - Sulfur Standard: S @ 100 ug/g in 70% Isooctane/30% Toluene

**Component Information** 

Chemical name	Partition coefficient	
Toluene	2.7	

#### 12.4. Mobility in soil

Mobility in soil No information available.

#### 12.5. Results of PBT and vPvB assessment

#### PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
isooctane	The substance is not PBT / vPvB
Toluene	The substance is not PBT / vPvB

#### 12.6. Endocrine disrupting properties

No information available. **Endocrine disrupting properties** 

#### 12.7. Other adverse effects

No information available.

# SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste from residues/unused

products

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

# **SECTION 14: Transport information**

#### IATA

14.1 UN number or ID number UN1993

14.2 UN proper shipping name Flammable liquid, n.o.s. (isooctane, Toluene)

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Ш

14.3 Transport hazard class(es)

14.4 Packing group

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Description UN1993, Flammable liquid, n.o.s. (isooctane, Toluene), 3, II

No information available

14.5 Environmental hazards Yes

14.6 Special precautions for user

А3 **Special Provisions ERG Code** 3H

IMDG

14.1 UN number or ID number UN1993

14.2 UN proper shipping name Flammable liquid, n.o.s. (isooctane, Toluene)

14.3 Transport hazard class(es) 14.4 Packing group Ш

Description UN1993, Flammable liquid, n.o.s. (isooctane, Toluene), 3, II, (23°C c.c.), Marine pollutant

14.5 Marine pollutant Yes **Environmental hazards** 

14.6 Special precautions for user

**Special Provisions** 274

EmS-No. F-E, S-E No information available

14.7 Maritime transport in bulk

according to IMO instruments

RID

14.1 UN number or ID number UN1993

14.2 UN proper shipping name Flammable liquid, n.o.s. (isooctane, Toluene)

14.3 Transport hazard class(es) 14.4 Packing group

Description UN1993, Flammable liquid, n.o.s. (isooctane, Toluene), 3, II, Environmentally Hazardous

14.5 Environmental hazards

14.6 Special precautions for user

**Special Provisions** 274, 601, 640D

Classification code F1

ADR

14.1 UN number or ID number UN1993

14.2 UN proper shipping name Flammable liquid, n.o.s. (isooctane, Toluene)

14.3 Transport hazard class(es) 3 14.4 Packing group

Description UN1993, Flammable liquid, n.o.s. (isooctane, Toluene), 3, II, (D/E), Environmentally

Hazardous

14.5 Environmental hazards Yes

14.6 Special precautions for user

**Special Provisions** 274, 601, 640C

Classification code F1

**Tunnel restriction code** (D/E)

# SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

#### **France**

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Toluene	RG 4bis,RG 84	-
108-88-3		

#### Germany

Water hazard class (WGK)

obviously hazardous to water (WGK 2)

#### Netherlands

Chemical name	Netherlands - List of Carcinogens	Netherlands - List of Carcinogens	Netherlands - List of Reproductive Toxins
Toluene	-	-	Development Category 2

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended), Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003. No. 169, item 1650), Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of

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December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888). Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

#### Authorisations and/or restrictions on use:

This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

# **DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors**Not applicable

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Toluene - 108-88-3	48.	
	75.	

#### **Persistent Organic Pollutants**

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### **International Inventories**

TSCA Complies

DSL/NDSL Contact supplier for inventory compliance status
EINECS/ELINCS Contact supplier for inventory compliance status
ENCS Contact supplier for inventory compliance status
IECSC Contact supplier for inventory compliance status
KECL Contact supplier for inventory compliance status
PICCS Contact supplier for inventory compliance status

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AIIC

Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

15.2. Chemical safety assessment

**Chemical Safety Report** 

A Chemical Safety Assessment has been carried out for this substance

## **SECTION 16: Other information**

## Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapour

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H361d - Suspected of damaging the unborn child

H373 - May cause damage to organs through prolonged or repeated exposure

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value Sk\* Skin designation

Classification procedure		
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used	
Acute oral toxicity	Calculation method	
Acute dermal toxicity	Calculation method	
Acute inhalation toxicity - gas	Calculation method	
Acute inhalation toxicity - Vapour	Calculation method	

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Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	On basis of test data

#### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

. Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications

Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme

Organisation for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a guarantee as to the properties of the material supplied, and should be used only as a guide. LGC makes no warranties or

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**End of Safety Data Sheet** 

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